

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT 83- 779

PLATE 1 OF 5

ALLOCHTHON MAP

EXPLANATION TO PLATE 1

- Q - Quaternary unconsolidated sediments
K, Kn - (north of Brooks Range) Cretaceous sandstone and shale deposited during and after the major thrusting event. Allochthonous pre-Albian sedimentary rocks and autochthonous Albian and younger sedimentary rocks, undivided (K). Late Albian and younger autochthonous rocks of the Nanushuk Group (Kn).
K, KJv - (south of the Brooks Range) Lower and Upper Cretaceous sandstone and shale (K) or Lower Cretaceous and Upper Jurassic(?) andesitic rocks (KJv).

ALLOCHTHONS AND SEQUENCES

7 - Misheguk Mountain allochthon

- Misheguk igneous sequence

6 - Copter Peak allochthon

- Copter igneous sequence

5 - Nuka Ridge allochthon

- 5N - Bogle sequence
5B - Bastille sequence

4 - Innavik River allochthon

- 4I - Innavik sequence
4N - Nachralik Pass sequence
4P - Puzzle Creek sequence

3 - Kelly River allochthon

- 3E - Eli sequence
3K - Kelly sequence
3A - Amphitheatre sequence

2 - Picnic Creek allochthon

- 2A - Amaruk sequence
2W - Wulik sequence
2P - Picnic sequence
2N - Nigu sequence

1 - Brooks Range allochthon

- 1K - Key Creek sequence
1I - Ivotuk sequence
1L - Lisburne Hills sequence

Allochthon numbers 1, 2, 3, 4, and 5 without a letter designation mean that the sequence is not designated.

Uncertain allochthon and sequence designations are queried or more than one possibility is designated in parentheses, for example:
(3,4,5) = undesignated sequences in allochthons 3, 4, and (or) 5.
(1K,2W) = Key Creek sequence of allochthon 1 and (or) Wulik sequence of allochthon 2

SCHWATKA MOUNTAINS PROVINCE

- A - Schwatka sequence -- partly to completely metamorphosed sedimentary and igneous rocks considered autochthonous or parautochthonous. The protolith for these rocks was formed in the Paleozoic and Precambrian. They were regionally metamorphosed in the Cretaceous.

Inferred northern boundary of allochthon one in the subsurface.

Metamorphosed granitic rocks in the Schwatka province.

B B' Cross sections for this map appear on plate 3.



PLATE 1 ALLOCHTHON MAP OF THE WESTERN BROOKS RANGE

0 50 100 KM
SCALE 1:1,000,000